S/171-x/60/013/002-3/001/005 E193/E435

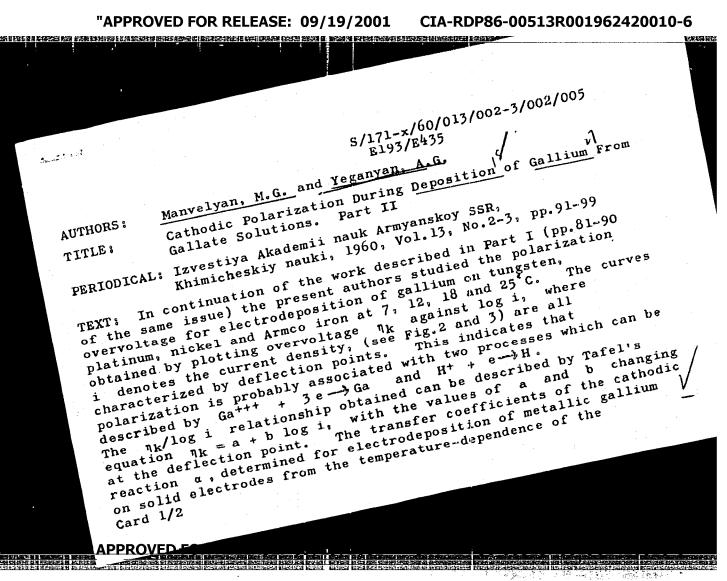
Investigation of Electrodeposition of Metallic Gallium From Aluminate Solutions. Part I

ASSOCIATION: Institut khimii Sovnarkhoza ArmSSR

(Institute of Chemistry, Sovnarkhoz, ArmSSR)

SUBMITTED: April 8, 1960

Card 3/3



5/171-x/60/013/002-3/002/005 E193/E435

Cathodic Polarization During Deposition of Gallium From Gallate Solutions. Part II

electrolysis rates, were 0.5 to 0.8 for the first (lower) and 0.4 to 0.55 for the second (upper) portions of the $\eta_k/\log i$ curves. The values of the activation energy for the process (determined from the linear relationship log i versus 1/T) indicated that both electrochemical and concentration polarization take place during electrodeposition of Ga from alkaline gallate solutions on tungsten, platinum and nickel. deposition of gallium on Armco iron, the formation of a new phase In the case of can be inferred from the log i versus 1/T relationship, and polarization is in this case related to the energy of formation of the new phase. There are 5 figures, 2 tables and 13 references: 12 Soviet and 1 German).

ASSOCIATION: Institut khimii Sovnarkhova ArmSSR

(Institute of Chemistry, Sovnarkhoz, ArmSSR)

SUBMITTED: April 8, 1960

Card 2/2

CIA-RDP86-00513R001962420010-6" APPROVED FOR RELEASE: 09/19/2001

S/171/62/015/005/001/008 E071/E592

AUTHORS:

Manvelyan, M.G. and Yeganyan, A.G.

TITLE:

Cathode polarization of gallium in gallate solutions at temperatures above the melting temperature of

gallium. Communication 3

PERIODICAL:

Akademiya nauk Armyanskoy SSR, Izvestiya. Seriya khimicheskikh nauk. v.15, no.5, 1962, 411-414

TEXT: Cathode polarization during the precipitation of gallium from gallate solutions (0.01 M Ga and 2.6 N NaOH) at 30, 40, 50 and 60°C on solid electrodes (Pt, W, Armco iron) was investigated by the compensation method in the vapour with saturated calomel electrode, using a previously described apparatus (Izv.AN ArmSSR, KhN, 13, 91, 1960). Each of the curves relating the potential to the logarithm of the current density consisted basically of three linear sections. These curves depended on temperature: the increase of which led to the decrease of the polarization potential. The coefficients of transfer of electrode processes were found to be in the range 0.75-2.02 for the first section of the curves, 0.22-0.57 for the second and 0.2-1.01 for the third section. Plotting log I vs. 1/T (where I velocity of

Cathode polarization of

S/171/62/015/005/001/008 E071/E592

electrochemical processes, T - absolute temperature) at a constant potential, a smooth and gradual transition of the phase, chemical and concentration polarizations on platinum and tungsten and phase polarization on Armco iron cathodes was observed. There are 4 figures.

ASSOCIATION:

Institut khimii Sovnarkhoza ArmSSR

(Institute of Chemistry of Sovnarkhoz

ArmSSR)

SUBMITTED:

August 15, 1962

Card 2/2

5/171/62/015/006/001/006 E021/E492

Cathodic polarization during the deposition of gallium Manvelyan, M.G., Yeganyan, A.G.

AUTHORS: TITLE:

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Khimicheskiya

TEXT: The electrodeposition of gallium direct from aluminate solutions with an Al:Ga ratio of 35:1 and 25:1 and an Al:NaOH ratio of about 1:3 was studied solid electrodes of platinum tungsten nickel and armco iron were used for the deposition which was graph relating log current density to overpotential consisted of carried out between 0-20 and 30-60°C. The values of the transport two parts obeying the later equation. The values of the transport coefficient of the electrode processes were found to be within the limits of 0.46 to 0.8 for the first part of the curve and limits of 0.46 to 0.8 for the first part of the cathode material two parts obeying the Tafel equation. 0.35 to 0.45 for the second part depending on the cathode material. These results were similar to those pertaining to pure gallate solutions at temperatures up to 25°C. The cathode potential-log. current density curves at 30, 40, 50 and 60°C consisted of three Card 1/3 Card 1/3

s/171/62/015/006/001/006 E021/E492

linear portions, the values of the transport coefficients being Cathodic polarization ... within 1.51 to 0.5 for the first portion, 0.58 to 0.33 for the The values second portion and 0.46 to 0.11 for the third portion. for the second portion were in good agreement with those for the second part of curves obtained during deposition of gallium from activation energies showed that both electrochemical and concentration polarisation took place during electrodeposition of gallium on platinum, tungsten and nickel from aluminate solutions The process depended on the time of the discharge of gallium and/or hydrogen ions and their rate of diffusion. The change in energy of activation in relation to the change in polarisation at 0 to 20°C was lower in comparison with pure sodium gallate solutions at 7 to 25°C, which was attributed to the change in the energy barrier produced by the hydrated anions. increase in the effective activation energy at 30 to 60°C was It was also shown that during electrodeposition of gallium on armco iron at 0 to 60°C, a new phase was depended on the energy of formations of this new phase. formed during electrocrystallisation. Card 2/3

CIA-RDP86-00513R001962420010-6" APPROVED FOR RELEASE: 09/19/2001

Cathodic polarization ... S/171/62/015/006/001/006

are 6 figures and 2 tables.

ASSOCIATION: Institut khimii Sovnarkhoza Armssr (Institute of Chemistry Sovnarkhoz Armssr)

SUBMITTED: August 20, 1961

Card 3/3

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6

L 57544-65 ENT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AR5015152

UR/0137/65/000/005/G015/G015

SOURCE: Ref. zh. Metallurgiya, Abs. 5G36

16 3

AUTHOR: Yeganyan, A. G.

TITLE: Separation of gallium from aluminate solutions by an electrolytic method

CITED SOURCE: Tr. 3-go Vses. soveshchaniya po khimii i tekhnol. glinozema.

Yerevan, 1964, 373-386

TOPIC TAGS: gallium, aluminate, electrolyte, electrolysis, dissociation potential, tungsten electrode, platinum electrode, iron electrode, cathodepolarization

TRANSLATION: Dissociation potentials were measured for the following electrolytes: (1) $GaCl_3$, 0.003 molar in gallium and 0.08 molar in hydrochloric acid; (2) $NaGa(OH)_4$, 0.01 molar and higher in gallium and 2.5-2.6 normal in sodium hydroxide; (3) $NaAl(OH)_4$ + $NaGa(OH)_4$, 2.5-2.6 normal in sodium hydroxide, with a ratio Al:NaOH = 1:3, and a ratio Al:Ga of about 42:1. Potentials were determined for the separation of gallium from these electrolytes on tungsten, platinum, and

Card 1/2

to 50:1. The cathode polytes 2 and 3 on tungsten	The dissociation ial of electrolyte from electrolyte allium from electrolyte allium from electron falls with an illustration during platinum, and the temperature k	rolyte 2; however, the yincrease in the ratio Al:Granecipitation of gallium farmed iron was measure inetic method indicate the	eld of gallium a from 35:1 rom electro- d. Results of presence of a fron cathode	Section Visit Section 1
chemical and concentrate also phase polarization.	tion polarization, 15 figures, 2 t	inetic method indicate the and in the case of Armod ables, 8 literature titles.	(From R. Zh.	
also phase polarization.	tion polarization, 15 figures, 2 t	and in the case of frieda ables, 8 literature titles.	(From R. Zh.	
working up the data by a chemical and concentrat also phase polarization. Khimiya) SUB CODE: MM	ion polarization, 15 figures, 2 t	and in the case of Armonables, 8 literature titles. ENCL: 00	(From R. Zh.	en de la compe

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6

EWT(d)/EWT(m)/EWP(v)/EPF(c)/EWA(d)/EPR/EWP(j)/T L 41558-65 \$/0032/65/031/003/0372/0374 WW/EM/RM Ps-4/Pt-7 ACCESSION NR: AP5007681 TITLE: Device for determining moduli of elasticity and internal friction at high temperatures in a magnetic field (SOURCE: Zavodskaya laboratoriya, v. 31, no. 3, 1965, 372-374 TOPIC TAGS: modulus of elasticity, magnetic field, material, material strength, elastic deformation ABSTRACT: The author describes equipment for determining moduli of elasticity and internal friction at high temperature in a magnetic field (1000 persteds). Principal components of the device are shown schematically in Fig. 1 on the Inclosure. The device is based on electrostatic excitement and the revealing of the torsional frequency of the specimen. Cylindrical or prismatic specimens (diameter = 5-15 mm; length = 100-200 mm) may be tested. The device is capable of accuracies of the full a mg order: modulus of elasticity 0.19%, deflection modulus 0.2%, and internal friction 0.1-0.5%. In the figure, 1 is the specimen held by insulated, modeled coupling rods 2; 5 is a 0.005-mkf condenser which supplies a variable potential (120-200 volts) to the sonic generator 4 (type 3 - 2A). A variable torsional force . Card 1/3 L

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP8

CIA-RDP86-00513R001962420010-6

is created at the left end of the specimen, causing oscillation of the specimen at L 41558-65 the same frequency as that of the variable potential. The right end of the specimen ACCESSION NR: AP5007681 (by varying the capacitance of a second condenser) creates a polarizing potential of 300 volts. Components 5 through 9 are parts used for relaying information about the process, while 10 through 14 are components in the system for controlling ambient test conditions of excitation frequency and temperature and for temperature measurement ment. The modulus of electicity of a given specimen is determined from the formulae , where ff is the characteristic frequency of longitudinal oscillation of the specimen; $l = l_0 (1 + \alpha t)$ - length of specimen; ρ - density of specimen; d - coefficient of thermal expansion; A is the Rayleigh correction; r - specimen radius; \(\mu\text{-Poisson coefficient.}\) Orig. art. has: 2 figures and 5 ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut im. I. P. Bardina equations. SUB CODE: ME, EM (Central Scientific Research Institute) ENCIA 01 SUBMITTED: OTHER: 000 NO REF SOV: Card 2/3

S/169/63/000/001/022/062 D263/D307

AUTHORS:

Aleksandryan, A.A., Yeganyan, Ts.A. and Kocharyan,

TIME:

Solar radiation at the Dilizhan spa in the summer

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 1, 1963, 19, abstract 18119 (Tr. Yubileyn. plenuma Uch. med. soveta M-va zdravookhr. ArmSSR, posvyashch. 40-letiyu ustanovleniya Sov. vlasti v Armenii. T.I. Yerevan.

The results are given of the intensities of full 1961, 87-96)

direct, ultraviolet, visible, and infrared solar radiation, in dependence of the elevation of the sun, at Dilizhan, during the summers of 1958-1960. The measurements were carried out by thermoelectric and photoelectric methods

[Abstracter's note: Complete translation] and photoelectric methods.

Card 1/1

CIA-RDP86-00513R001962420010-6" APPROVED FOR RELEASE: 09/19/2001

16(1) AUTHOR:

Yeganyan, V.V.

SOV/22-11-6-4/10

TITLE:

On the Plane Elasticity Problem for the Semicircle (K ploskoy

zadache teorii uprugosti dlya polukruga)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya fiziko-matema-

ticheskikh, Nauk; 1958, Vol 11, Nr 6, pp 3-14 (USSP)

ABSTRACT:

The author considers the plane state of stress in a semicircle, the boundary of which is arbitrarily loaded. According to Ya.S. Uflyand / Ref 1 / the author uses bipolar coordinates for the solution. The normal stresses on the boundary are explicitly expressed by Fourier integrals. The following special cases are separately considered: a.) A semicircle, the round boundary of which is subject to constant pressure, and the diameter is subject to an exponentially variable stress.

b.) A semicircle, the whole boundary of which is exponentially

stressed.

Card 1/2

CIA-RDP86-00513R001962420010-6" **APPROVED FOR RELEASE: 09/19/2001**

6

SOV/22-11-6-4/10 On the Plane Elasticity Problem for the Semicircle

There are 7 figures, and 5 references, 3 of which are Soviet,

and 2 English.

ASSOCIATION: Yerevanskiy politekhnicheskiy institut imeni Karla Marksa (Yerevan Polytechnical Institute imeni Karl Marx)

March 20, 1958 SUBMITTED:

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513 CIA-RDP86-00513R001962420010-6"

YEMANYAN, V. V., Cand Tech Sci (diss) -- "The plane problem in the theory of elasticity for a region bounded by arcs of two intersecting circles". Yerevan, 1959. 18 pp (Yerevan Polytech Inst im K. Marks), 150 copies (KL, No 10, 1960, 130)

YEGANYAN, V.V.

Plane problem in the theory of elasticity for a circular hole.

Sbor. nauch. trud. ErPI no. 20:191-203 '59. (MIRA 14:5)

(Strains and stresses)

YEGANYAN, V.V. One-dimensional problem in the theory of elasticity for an eccentric ring. Izv. AN Arm. SSR.Ser.fiz.-mat.nauk 17 no.1:63-74 '64. (MIRA 17:3) 1. Vychislitel'nyy tsentr AN Armyanskoy SSR i Yerevanskogo gosudarstvennogo universiteta.

YEGANYAN, V.V.

General solution of a problem in elasticity theory for an infinite plane with an alveolar hole, along which are applied some given stresses. Izv. AN Arm. SSR. Ser.fiz.-mat. nauk 17 no.4835-41 '64. (MIRA 17:11)

1. Vychialitel'nyy taentr AN Armyanskoy SSR i Vychialitel'nyy taentr Yerevanskogo gosudarstvennogo universiteta.

YEGANYAN, V.V.

PERSONAL PROPERTY OF THE PERSONAL PROPERTY AND PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL

General solution to a problem in the theory of elasticity involving an infinite plane with two circular holes subjected to the action of specified forces. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 18 no.6:11-18 '65. (MIRA 19:1)

1. Armyanskiy sel¹skokhozyaystvennyy institut.

CIA-RDP86-00513R001962420010-6" APPROVED FOR RELEASE: 09/19/2001

TEGANTAN, Yu, L.

Changing the drive in filters used for rough cleaning of oil, Avt.

(NIBA 11:3)

transp. 36 no.3:30 Mr 158.

(Automobiles—Engines—Oil filters)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962420010-6"

Terror vers

sov/122-58-6-6/37

AUTHORS:

TITIE:

Kruglov, M.G., Candidate of Technical Sciences, Docent; and Yeganyan, Yu.L., Engineer Investigation of Loop Scavenging of a Two-atroke Engine by means of a Running Single-cycle model (Issledovaniye petlevoy produvki dvukhtaktnogo dvigatelya na dinamicheskoy odnotsiklovoy modeli)

PERIODICAL:

Vestnik Mashinostroyeniya, 1958, Nr 6, pp 22-25 (USSR)

ABSTRACT:

Loop-scavenging tests were carried out with the help of a model test ris provided with a special device, electromagnetically controlled, for the additional feeding of air into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the upper into the cylinder when the piston passes through the cylinder when the cy dead point. The cylinder pressures were detected by a barium-titanate transmitter, the pressures in the exhaust manifold, by a capacity transmitter. The degree of mixing was measured by gas analysis after scavenging with carbon dioxide. Eight models with different designs of the scavenging ports were tested at 1 000 rpm at scavenging pressures between 1.06 and 1.2 kg/cm2. Figure 2 shows the cross-sectional area of the scavenging and exhaust ports plotted against the crank angle. All but the eighth model have the same maximum cross-sectional areas. The scavenging air consumption, the residual gas coefficient

Card1/2

CIA-RDP86-00513R001962420010-6"

APPROVED FOR RELEASE: 09/19/2001

sov/122-58-6-6/37

Investigation of Loop Scavenging of a Two-stroke Engine by means of a Running Single-cycle Model

and the charging coefficient are plotted against the scavenging air pressure in Figures 4, 6 and 7. The residual gas coefficient is plotted against the excess scavenging air coefficient in Figure 5. The residual 628 coefficient and the charging coefficient are plotted against coefficient and the charging coefficient are plotted against the speed in Figures 8 and 9 for model Mrs 5 and 8, chosen the speed in Figures 8 and 9 for model Mrs 5 and 8, chosen as the most suitable designs. The main factors describing the scavenging process for these two models are compared in a table, either at the same scavenging air flow or at the same scavenging air pressure. Model Nr 8 appears superior by virtue of a higher scavenging efficiency and a higher charging coefficient. There are 9 figures and 1 table.

Card 2/2 1. Internal combustion engines -- Analysis 2. Interal combustion engines--Test methods

NAUGIOV, N.O., kand, tekin, nauk; YEOANYAN, Tu.L., inzh.

Semuniakananan in studying the gas exchange
Dynamic single-cycle model engines used in studying the gas exchange
in two-cycle engines. [Trudy] NVTU no.63:116-132 153. (MIRA 11:6)

(Oas and oil engines)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962420010-6"

THE PAR

प्रवासन कर महत्र अन्य सम्बद्धाः अस्ति । अस्ति

YEGANYAN, Yu. L., Candidate Tech Sci (diss) -- "Investigation of gas exchange in a two-stroke tractor engine with a loop gas-scavenger". Moscow, 1959. 10 pp (Min Higher Educ USSR, Moscow Order of Lenin and Order of Labor Red Banner Higher Tech School im N. E. Bauman), 150 copies (KL, No 23, 1959, 166)

1/8_0	a x	AN,	/b.s	i k	No.	Graning 1984 1984 1987 1987 1987	13 4 ±	8	8) - 7 [a			1
640¢/708	lay vmatramego y konferenteil na (Increasina n Englass; Bryo ni Bensan Ba	shing House: or Literature I.M. Dennama, fic and engine	itis. 1 with detter	gines. Experim e conference to as short summar ness follow	mman], Genera f turbopiston s of determinin	a Device for In- train authorisational be- made and the safe between IN- Violatrich-Moz- it more feel, aunicement of A	are Pormation 1 braation process	Pagines With h-r.p.a. engines and 119, 3-155, 8-254, ations are given.	the Gas-exchange	Detwees 240	٠.			
NOW EXPLOITATION	hnost dyfate o-tehnichesko Tu iseni buns rui Cosbusto rud Technical ines, MYTU ise b,500 copie	Ed. of Publi Menging Ed. f hine Building:	-bailding plan papers dealing	combustion en evaluated, 12 lection contail ioned, Befere	performance of	is Extract as of the Extract as of the Extract in t	Study of Mirty	earth Done.on alpad with hig he performent le engines (S- their specific	. Study of th	the Interaction Between			i i	
	one, typusheys tachmishestoys uthilishens youngly meadabnest; i ulushbaniys etonomichosti drigateley vanturmengo. yobenlye meadabnest; i ulushbaniys etonomichosti drigateley vanturmengo. merruniya i deblady i goobshcheniya an manchho-tekhnichostoy konfurntisi tas derruniya i metrumengo sgrandya Mrvi Lamai bamana (Lorresing tas derruni and haran konfurniya Expensival Combuniton Engines; Proper tas derruniya tasi haran tasi Expensival Combuniton Engines; Proper tasi Trasantion Frasnited at the Scientific and Tebmical Confurnes Said and Trasantion frasnited at the Scientific and Tebmical Confurnes Bandan, 1959, 219 p. Errunia diputation Engines, Novi conjess printed. Mandala, 1959, 219 p. Errunia alli inserted. 5,500 copies printed.	1. A.S. Orlis, Doctor of Twolmical Sciences; Ed. of Poblishing Souse: L.E. Togordins; Trub. 2d.; V.D. El'Mind; Monaging Ed. for Literature on Antomotive, Trustor, and Agricultural Machine Building: L.M. Bennama Engineer.	percola: this collection or articles and machine-building plants. perconnal of research institutes and machine-building plants. OWERACE: The collection contains reports and papers dealing with better	escond mad prairie capacities for intranal combustion equinos. Experimental services entired and their effectiveness evolutied. The conference took place is 1977. The introduction to the collection contains short ensuring effective actions, personalities are mentioned, Enteraces followers to the articles.	Chursis, M.M. [Doctor of Technical Sciences, NVTV Level Benses]. Generalised ChursCellittes of Turbopiston Engises The mithor madyless-factors affecting the performance of beroopiston Specions. Dallestor efficiency is computed, and methods of determining performance coefficients are stated.	Instringuistic A.V. [Definer, RMG], Donlis Examt as a brite for Incr [Definer of Powr Output and Sconger in Practic Define the work Chiral and Sconger in Practic Define the major many task distance conflicients for a four-stone authorized seates with the flow of gases through both the examt value and the period to the cylinder. Comparison is such between M engines, because the change and the examt conclude the Change and the examt concludes that don't end the strategy between M engines, and the strategy between M engines, and the strategy between M engines, and the change of the change of the change of the major conflicted to the change of the property of the pr	HIVOUR, A.P., [Engines, MAT], Experimental Study of Mixture Porestion in Findance Comburing Cheekers The sector reports on Fundle of a study of the mixture-forestion process by sector of high-speed photography.	[Lollorgall, T.J. [Engineer, 7:12]. Some Research Done on Engines With the B.J. Coefficients The arthory reports on tests and results obtained with high-r.p.s. engines and orbitses home attempts to increase engine parformance and that seconds. Bit types of Bortes motorcypis engines (3-13, 5-13) B-27, 3-35, and 5-35) are monitored, and that specifications are given.	Issurms, Na.L. [Engineer, Will teent Bennal.]. Process in a Dysmic One-stroke Model.	Study of			\$ - - - - -	
E I	takhalcheskoye nowil i ulucha ady i soubabch ali vmirwnoe luguroving the in Fresented st mut of Internal 219 p. Erret	Dector of Tech Tech. Mai	lection of articulation contails	ater capacitions ated and their The introduce a. No persons articles.	[Doctor of Twell of Twell of Turboplaton aalysas factors affector of the control	Four Chains and part of the four chains and the flow of gas lower end of the flow of the flow of the flower chains and the flower ch	tion Charlers orts on result	[Engineer, Ticlents orts on tests one attempts to Six types of i	(Engineer, MY	[Batteer, Rot].				
	present. Tyrabeys (evyphentlys monthly agriculty "Prigate the Cartynt and itself the Department of th	A.S. Orling. T. Yegorkins; S. Artomotive,	regross: This solvers personnel of re- coveracie: The sol	results are studied by the state of the surficient of the surficie	Marketerrans Marketerrans The mathor w Wellows. It performance	diriginally, action of the second of the sec	balence Cobustion of Management of Managemen	h B.P.M. Court he methor re- met outlines feet economy.	cess in a Draw	Des'win, 5.7s.			* •	
η,		¥	E 6		<u>.</u>	ap 32		##	A.	ā!			 	
	MURAL DE MARIE MES					Entra Education						2 5 5 1 ×		i i

YEGANYAN, Th.L.: KRUGLOV, M.G.

Investigating loop scavenging of tractor-type two-cycle diesel
Investigating loop scavenging of tractor-type two-cycle diesel
engines. Nauch.dokl.vys.shkoly; mash. i prib. no.1:6-17 '59.

(MIRA 12:8)

(Diesel engines--Tenting)

ORLIN, A.S.; KRUGLOV, M.G.; YEGANTAN, Tu.L.

Investigating the gas exchange in two-cycle diesel engines with loop scavenging. Trakt, sel'khozmash. 30 no.2:5-8 F '60.

(MIRA 13:5)

(Diesel engines)

YEGANYAN, Zh.E. Station of communist labor. Zhel.dor.transp. 43 no.3:64-67 (MIRA 14:3) Mr 161. 1. Nachal'nik stantsii Kamenolomni. (Kamenolomni-Railroads-Employees)

YEGAREVA, N. V.

"Bird's-Foot Trefoil (Lotus corniculatus) as a Fodder Plant in Leningradskaya Oblast." Cand Agr Sci, Leningrad Veterinary Inst, Leningrad, 1953. (RZhBiol, No3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

(MIRA 10:1)

YEGAREVA, N.V., kandidat sel'skokhozyaystvennykh nauk. Germinating force of common bird's foot trefoil seeds as affected by the length of storage. Agrobiologia no.6:135 N-D '56.

1. Leningradskiy veterinarnyy institut. (Lotus) (Germination)

TEMASAN AN, A. A. Couent.

"Nocent Results in the Treatment of Syphilis with Penicillin and by the Chronic Intermittent method."

Vesturk vererologii i dermatologi. / Eulletin of Venerology Dermatologi. 7, 701, Loscow, February-Jenuary 1951 (biomper).

YEGAY, A.G.

PHASE I DOOK EXPLOITATION

507/5690

د.

Akademiya nauk Kazakhakoy SSR. Institut yadornoy fiziki.

Matallovedeniye i obrabotka matallov davleniyem (Physical Hatallurgy and Pressworking of Matals) Alma-Ata, 1951. 183 p. (Series: Trudy Instituta yadarnov fiziki, t. 4) 2,450 copies printed.

Resp. Eds.: I. G. Grinman and A. A. Preanyakov; Rosp. Secretary: V. V. Chervyakova; Eds.: M. Ya. Brailovskoya and T. I. Shevchuk; Tuch. Ed.: Z. F. Rorokina.

PREFER: This book is intended for scientific research workers, technical personnel in industry, and students and appirants interested in problems of physical metallurgy and the pressworking of metals.

COVERAGE: The book, Volume IV of the Transactions of the Institute of Euclear Payoics, Academy of Sciences Kazakh SSR, contains papers reviewing problems of physical netallurgy. Attention is given to a consideration of metal dustility, strength, phase transformation, and the ordering of various alloys, and to a strength, phase transformation, and the plasticity. Experimental findings discussion of the diffusion mechanism of the plasticity. Experimental findings concerning strength, deformation, and external friction in the working of nonferrous metals and alloys are included in papers dealing with metal rolling.

Card 1/6

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP80

CIA-RDP86-00513R001962420010-6"

<u> </u>		وما الحيار والمنافية والمستقل المستحد	2.3	
• }		4-6-4	•	
1		EST/5690		
\	. and Preserviting o			
	Paysical Estallurgy and Pressworling o	a manual of multifraft wire-frame	S Smarten	
-	at mytmatic inspection on	al control of are accompanied by rel	Elenced, "1	
Ì	Problem of substate inspection on Problem on substate inspection of problem of substate inspection of problem on substate inspection of s	of the habara	<u>.</u>	
1	Problem of miteratic inspection on frems are also considered. Not the majority of which are Soviet.		}	
)	for informal	¥		
	TAKER OF CONTENTS:			
4	Marian Co ossista	a Beforention Eschanish of	3	
	TAKEE OF CONTENTS: Kirillow, P. G. On the Problem of th	-		
1	Mitallic Solids	amostion of the		
1	A A Preony	thoy, On the quantity	9	
-	Matallic Solids Chemography, K. I., and A. A. Presnyl Ductility of Copper-Alumina Allays			•
1	iniciality of order	The same of the same of the same	•	
1	y y Charvyckova	, and R. A. Maria Alloyo	15	
· [Predictifity of Copper-Aluminan Albys Prednyakev, A. A., V. V. Charvyakova Problem of the Hature of Ductility D	amfall in all	ţ	
\	Problem of the Hature of Buctility be problem.	on the Euparductility of	23	
[v v Chorv/	COVIC. OIL COL		
	Presnyakov, A. A., and V. Presnyakov, A. A., and V. Alloys Estectoid Aluminum-Zinc Alloys			
1	Eutectora interest	low. On the Abnormal Increases of	33	
1 .	Eutectoid Aluminum-Zinc Alloys Startkova, C. V., and A. A. Presnyal			
ì	Dustility of α + β-Brasses		i i	
1	2			
i	•		i	
1	Card 2/6			
1				
1		and the community of th		
1	The second secon	property of the second		
ا ماسيونونيوني	markan and the state of the sta			
	•			
			•	

• 6				23	
	•	Fayeical Metallurgy and Pressworking of Metals 207/5350	•		
	•	Starikova, G. V., and A. A. Presnyckov. Investigating the Pastillity of G-Brass	59	•	
•		Presnyakov, A. A., and L. T. Bautova. On the Problem of Polymorphical of Zinc	12	, , ,	
	÷	Presnyakov, A. A. and L. I. Dantova. On the Hature of Cold-Chertness in Metals and Alloys	‡ 3		
	•	Presnyakov, A. A. On the Couses of the Amenalies in the Dustility of	53		
		Presnyakov, A, A., L. I. Dentova, and Tu. F. Klyushnikov. Gennerming Some Special Features of the Changes in the Microbardsons and Grystal Structure of Brass	63		
		Presnyakov, A. A., L. I. Deutova, and Mu. F. Klyndrillov. On the Anomalian the Electrical Resistance of Brascos and Aluminum Erronzos	· 69		
}		card 3/6		:	;
ļ			* .		
***					1
į		والمتحدث والمتحدث والمتحدث والمتحدث والمتحدث والمتحدين والمتحدين والمتحدث والمتحدث والمتحدث والمتحدث والمتحدث والمتحدث والمتحد والمتحدث وا			
• •					

		وا د این در است. در واقع میشند. بیشند به معالی بین داد در میشند. ا	Communication (Control of States and Control of Control				i	
•								
1	·					1.2		
ŀ		•		207/5650	3		1	
1		Physical listellura	and Preseverling of lista	المناف		1	1	
1		12,020		Anomilies in the Electrical				
		Klasschuffler, Tu. F.,	and A. A. Prosnyaisvi.	Michael 21	74	4	1	
		Posistance of our of	Tarita terranda	•				
Ì		•	o	i the Bilect of the Crystalli of Comercial Crade Litche	L-	î		
1		'Typenbayer, G. N.,	and A. A. Promycuore on	of Compraint-Crade Litche	78	1 1	1	
		zation liate on the	Deracona crim para				· 1	
1			Combant and V. V.	. Chorryalova. Concerning	0.5		1	
		Prosnyakov, A. A.,	Yu. A. Gorman's cand Vo	,	85	,	· [
		+ha Ecuillorium Diu	Carried Of Organism com-			٧.		
		. 1/ 17	and A. A. Pronnyckey.	The Effect of Versains on th	.a 69		1	
Ì		Chernousova, A. T.,	rties of Copper-Ease Alle	oys ·	09		_	
,		Structure and From	4		95			٠.
- 1		" Managerko VII. P.	The Use of Hourd Transdu	cers in Etrain Cages	37		ļ	
1		MINORIEM, Ide		and Pataweining			1	
- 1	•	Presnynkov. A. A.,	and A. A. Vinnitokiy. O	m the Nethod of Determining A [Emmer] Reads	97		,	
- 1		the Externel-Price	COT COSTITICATE of comme		* '		}	
1			a a wanniari-in T	he Nothod of Determining the	3	1	•	
1		Presnyation, A. A.,	and A. A. Vinitesary.		.100			
- (Friction Unit Force	as in productionary		•.			
1	r							
- (ì	
		Carā 4/6				,		
		Cata 4/0					1	
- 1			.•					٠
		•	المعارض المعتصص المارين					
1						-	- 10 m	
į		The second secon	والمراج والمتحاضية المراجع المحيد والمحتجوب	Spatial Heavisian (1995)				
4.8.41								
			•		التهجي			
			CONTRACTOR OF STREET					

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962420010-6"

	3	
1		
	E01/5050	1
	Physical Estallurgy and Processoring of Estels	1
	Physical Hetallurgy and Pisters	
	Vinnitokly, A. A., and A. A. Froungekov. On the Problem of United Vinnitokly, A. A., and R. A. Froungekov. On the Problem of United 102)
	Vinnitoldy, A. A., and R. M. 1991	Į.
į ·	Vinnitelely, A. A., Extal Rolling Friction Forces in Fetal Rolling Friedly above, A. A. Concarning the Barendones of Impure Strongth on 107	į ·
	consequently the Derendence of Incomes Delibert 107	· •
	Freenyckay, A. A. Concurred	1
}	Temperature 07	1
1	Presnyakov, A. A. On the Problem of the Diffusion Mechanism of	
i e	Presnyakov, A. A. on the first	
1	Plastic Deformation	1
1	116	1
	vinnitakly, A. A., and A. A. Tittening of Friction Coefficients in Flattening	7,
	of Frietica Commission	
1	A G Yeggy, L. S. Hillinglova, and the Mygarl coving Toccosa 122	l
	Grimman, I. G., Harmand Thomastion and Control in the Mills	1
1		
1	Objectives of Automatic Transferring the Topolitical	
•	of Friction Coefficients in Pictumes of Friction Coefficients in Pictumes Grimmon, I. G., A. G. Veney, L. S. Hikkeylova, and Mr. V. Consv. Objectives of Automatic Inspection and Control in the Wire-Proving Income 122 Objectives of Automatic Inspection and Control in the Wire-Provincial Tracess 122 Objectives of Automatic Inspection and Control in the Vire-Provincial Vivo Consulting the Provincial Vivo Control Viv	
***	Objectives of Automatic Impostation . Investigating the Percivility Crimmen, I. G., and H. K. Dehesybehova. Investigating the Percivility Crimmen, Property Redication the Temperature of the Wire Enrice 125	
	Original, I. G., and H. K. Erheaybehova. Introduction of the Wire Fining of Magouring by Radioactive Rediction the Temperature of the Wire Fining 125	
*	Objectives of Rutchild Employees. Investigating the Pescivilly Crimmen, I. G., and H. K. Dehesybehova. Investigating the Pescivilly of Magnuring by Radioactive Rediction the Temperature of the Mine Euring Drawing	
	Original, I. G., and H. K. Erheaybehova. Introduction of the Wire Fining of Magouring by Radioactive Rediction the Temperature of the Wire Fining 125	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Original, I. G., and H. K. Erheaybehova. Introduction of the Wire Fining of Magouring by Radioactive Rediction the Temperature of the Wire Fining 125	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	
	Crimmen, I. G., and H. K. Ezhenybehova. Internations of the Wire During of Magnuring by Radioactive Radiotion the Temperature of the Wire During Drawing	

Physical Estallurgy and Pressvorking of Estals Grinman, I. G., and L. P. Rushkarev. On the Fraguency Esthed of Measuring the Encipull of a Wire During Drawing Grinman, I. G., Yu. V. Ovsey, V. S. Michéhanto, and Sh. Eshhteyev. Photoelectronic Hierometer for Gaging the Diemeter of Loving Wires or Threads Grinman, I. G., and L. S. Hikhaylova. On the Automatic Measuring of the Wire Velocity and Meatege Enring Drawing Yegay, A. G. Reader Starting [and Acceleration] of the Wound-Rotor Electric Infor With Up to 100 he Capacity by Using Electromasts of the Electric Infor With Up to 100 he Capacity by Using Electromasts of the Electric Infor With Up to 100 he Capacity by Using Electromasts of the Electric Information of the Automatic Electronic Drive of a Wire- Drawing France Grinman, I. G., and R. I. Sakhipov. On the Automatic Electric- Simulator Control of Wire-Drawing France AVAILABLE: Library of Congress Card 6/6 Vi/vre/mas 11-22-61		فعمامه بيرمان والا		٦3	-	
Grinman, I. G., Yu. V. Ovsev, V. S. Mishchenko, and Sh. Eschtayev. Proteelectronic Micrometer for Gaging the Diemeter of Moving Wires or Threads Grinman, I. G., and L. S. Mikhaylova. On the Automatic Measuring of the Wire Velocity and Movetage Euring Drawing Yegay, A. G. Reaster Starting [and Acceleration] of the Mound-Retor Electric Motor With Up to 100 km Capacity by Using Electromants of the MD 3008 FV 40% 2207 Type Melakhov, Yu. I., Study of the Automatic Electronic Drive of a Wire- Drawing Frame Grinman, I. G., and N. I. Sakhipov. On the Automatic Electric- Simulator Control of Vire-Drawing Frames Virences Virences		•	Physical Matallurgy and Pressworking of Matals ECV/56	90	, !	
or Threads Grimmen, I. G., and L. S. likhaylova. On the Automatic Measuring of the Mire Velocity and Meeting Drawing Yegay, A. G. Reactor Starting [and Acceleration] of the Mound-Rotor Electric Motor With Up to 100 km Capacity by Using Electromagnets of the Mil 300B FV 40, 2207 Type Milakhov, Tu. I., Study of the Automatic Electronic Drive of a Wire-Drawing France Grimman, I. G., and N. I. Sakhipov. On the Automatic Electric-Bimulator Control of Wire-Drawing France AVAILABLE: Library of Compress			of Measuring the Backpull of a Wire During Drawing	132		
Yegay, A. G. Reastor Starting [and Acceleration] of the Norma-Rotor Electric Fistor With Up to 100 km Capacity by Using Electrommets of the FD 300B PV Mc/, 2207 Type 151 M.lakhov, No. I., Study of the Automatic Electronic Drive of a Wire- Drawing France Grinman, I. G., and N. I. Sakhipov. On the Automatic Electric- Gimulator Control of Wire-Drawing France AVAILABLE: Library of Compress Valuetas			Proteelectronic Ricrometer for Usging this Dichiter of 1,572mg 11245	138		
Melakhov, No. I., Study of the Automatic Electronic Drive of a Wire-Drawing France Grinman, T. G., and N. I. Sakhipov. On the Automatic Electric-Bindlator Control of Wire-Drawing France AVAILABLE: Library of Congress Valuetas			Grimmen, I. C., and L. S. Hikhnylova. On the Automatic Measuring of the Wire Velocity and Pootage During Drawing	147		
Drawing France Grinman, I. G., and N. I. Sakhipov. On the Automatic Electric- Bimulator Control of Viro-Drawing France AVAILABLE: Library of Compress Vi/vre/mas		•	Electric Fotor With Up to 100 kg Capacity by using amount	151		- ₹, .
Similator Control of Viro-Drawing Frame AVAHABLE: Library of Congress Vi/vre/cos			Melakhov, No. I., Study of the Automatic Electronic Drive of a Wire- Drawing France	158		
Vid-rec/Ens			Grinman, I. G., and N. I. Sakhipov. On the Automatic Electric- Simulator Control of Vire-Drawing Frames	172		
			AVAILABLE: Library of Congress		i	
			cars 6/6			
	and the state of t		The second secon	i gradina i gradina	See a see .	

S/137/62/000/003/083/191 A006/A101

AUTHOR:

Yegay, A.G.

TITLE:

Choke acceleration of electric motors with up to 100 kw phase rotors with the aid of electromagnets M O 300 B Π B (MO 300B PV) 40%, 220 v

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 26, abstract 3D142

(Tr. In-ta yadern. fiz. AN KazSSR", 1961, v. 4, 151 - 157)

TEXT: In connection with the automation of the drawing practice the control of mills under starting conditions has a great practical importance. Stand and industrial tests of choke acceleration up to 100 kw power with the aid of electromagnets MO 300B carried out on drawing machines and mills show the reliability of the drive and smooth start of the mill. It is possible to regulate the equivalent dynamic moment by changing the air gap of the electromagnet. At present, the Cheboksary Plant of electric equipment is producing the following choke acceleration sets: panel NN B5004-23 All (PPV5004-23AI), force circuit 75 amp, 380 v; control circuit 127 v; and furthermore respectively: NN B5005-43 All (PPV5005-43AI), 250 amp, 380 v, 127 v; NN B5006-43 All (PPV5006-43AI), 225 amp, 380 v, 127 v; and NN B5007-43 All (PPV5007-43AI), 300 amp, 380 v, 127 v. [Abstracter's note: Complete translation]

K. Ursova Card 1/1

GRINMAN, I.G.; YEGAY, A.G.; MIKHAYLOVA, L.S.; OVSOV, Yu.V. Problems of automatic control in the drawing industry. Trudy Inst.iad.fiz.AN Kazakh.SSR 4:122-125 '61. (MIRA 14:8)

(Automatic control) (Wire drawing)

YEGEN'YEV, Pavel; AITOV, B., redaktor; FEOFILAKTOV, A., tekhnicheskiy

[On the banks of the Velga; sketches] Na beregakh Velgi; echerki.
Kazan', Tatgesizdat, 1952. 35 p. [Microfilm]. (MIRA 9:6)
(Velga River)

21(3)

SOV/112-59-2-3287

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 151 (USSR)

AUTHOR: Aradenne, M., Yeger, G., Isayev, B., Roggenbuk, V., and Froylikh, G.

TITLE: Pocket-Type Gamma-Radiation Dosimeter (Karmannyy dozimetr gamma-izlucheniya)

PERIODICAL: V sb.: Issled. v oblasti dozimetrii ioniziruyushchikh izlucheniy. M., AS USSR, 1957, pp 112-114

ABSTRACT: A pocket-type electrometer with a quartz filament and a reading microscope is described. The electrometer has a linear scale calibrated in milliroentgens. The scale span is 0-200 milliroentgens. Thirty experimental models of the instrument were tested. The charge leakage never exceeded 5% per day. The reading spread of individual meters did not exceed 10%.

Card 1/1

CIA-RDP86-00513R001962420010-6" **APPROVED FOR RELEASE: 09/19/2001**

864,97

s/079/60/030/011/001/026

5.4700

2209, 1018, 1043

B001/B066

AUTHORS:

Morozova, M. P. and Yeger, G.

TITLE:

Formation Enthalpy and Formula-weight Volumes of Low

Vanadium Oxides

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 11,

pp. 3514-3517

TEXT: The determination of the formation enthalpy of vanadium oxides meets with certain difficulties, since the only suitable calorimetric reaction, the oxidation, is not completed, and yields products of a phase composition which is not quite clear. Besides, a microcalorimeter had to be used (Ref. 1). The present paper investigates low vanadium oxides. As initial products, vanadium iodide was used which had been carefully hydrogenated with purified hydrogen for better pulverization, and vanadium oxide which had been obtained by reduction of vanadium pentoxide. The thoroughly pulverized mixture was pressed to tablets which were annealed in a vacuum resistance furnace with tantalum heater for 2 hours at 1660°C. The composition of the preparations was established by determining

Card 1/3

1

86497

Formation Enthalpy and Formula-weight Volumes of Low Vanadium Oxides

S/079/60/030/011/001/026 B001/B066

the increase in weight on their oxidation to vanadium pentoxide. The heats of combustion were determined in the vacuum microcalorimeter described in Ref. 1 (Table 1). Table 2 gives the formation enthalpies of vanadium oxides determined by various authors. The data obtained by the authors of the present paper agree with those of Refs. 1 and 2; the latter are given in the tables published by the American Office of Standards. The densities determined in the vacuum pycnometer and the formula-weight volumes of vanadium oxides calculated from them are presented in Table 3. The diagram shows the formation enthalpy and the formula-weight volume as a function of the oxide composition. It could not yet be determined what is represented by the composition VO0.30. It must be noted that the formation enthalpy and the formula-weight volumes of the products, which lie within the homogeneous range of vanadous oxide poor in oxygen (VO_{1.00} - VO_{0.86}), practically correspond to the values of formation enthalpy and formula-weight volumes of the mixtures of VO of the stoichiometric composition (VO_{1.00}), and to the oxide of the composition $VO_{0.33\pm0.03}$ (Ref. 8). The kind of dependence of the formation enthalpy Card 2/3

86497

Formation Enthalpy and Formula-weight Volumes of Low Vanadium Oxides

S/079/60/030/011/001/026 B001/B066

and the formula-weight volumes on the composition is thus determined for the range V - VO_{1.142}. There are 1 figure, 3 tables, and 9 references: 6 Soviet, 1 US, 1 Danish, and 1 German.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED:

January 3, 1960

- 1. YEGER, K. O., Eng.
- 2. USSR (600)
- 4. Kilns, Rotary
- 7. Design for a new rotary kiln. TSement 18 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

EGER, S.M

क्षर्वकृत्यक्षक्षाक्षाक्षाक्रम् स्टब्स्स्य स्टब्स्स्य स्टब्स्स्य स्टब्स्स्य

84-8-7/36

AUTHOR:

Yeger, S., Chief of OKB Division

TITLE:

Tu-110 (Subtitle: New Planes [Novyye samolety])

PERIODICAL: Grazhdanskaya Aviatsiya, 1957 Nr 8, pp. 8-9 (USSR)

ABSTRACT:

The Experimental Design Bureau (Opytno-konstruktorskoye byuro) of Academician A. N. Tupolev, twice Hero of Socialist Labor, has released the Tu-110 passenger turbo-jet aircraft for arterial air routes. The new aircraft has been derived from the Tu-104 turbojet and is superior to the latter in operating economy, range and reliability because of its higher power rating. The aircraft is powered by four turbojet engines created by the design group under the leadership of A. M. Lyul'ka, general designer. This amount of power can handle a much higher take-off weight with a payload reaching 12 tons. The new Tu-110 can carry 100 passengers (7,500 to 8,000 kilograms), 1,600 to 2,000 kg of luggage, and 2,000 to 2,900 kg of mail or cargo. During the take-off, if one of the engines fails, the plane will continue to ascend with a vertical

Card 1/4

84-8-7/36

國。德國,國際共和共和共和國國際在海通國際政策等的特殊。由於西班牙斯特別的政策,但由於西班牙斯特別,但由於西班牙斯特別,

Tu-110 (Cont.)

speed of 5-6 meters per second. The engines, two on each side, in contrast with the Tu-104, are not supported by the fuselage but by load bearing ribs of the center section. The wing center section was therefore increased by 1,200 mm on each side. Air for inboard engines is supplied through ducts in the wing center section. The air duct for outboard engines is of same construction as in Tu-104. The nose of the fuselage of Tu-110 is longer; hence the bubin is also longer, by 1,210 mm than the Tu-104. In the Tu-104 and Tu-104A the galley is in the central part of the fuselage; in the Tu-110 the galley and buffet are in the front part of the plane, and supplies are loaded through the front door. Nevertheless, the galley is comprised in one pressurized section with the passenger cabins, A partition separating the cockpit from the rest of the plane was placed on bulkhead No. 11. There are altogether 3 passenger compartments in the Tu-110. The first one, for 30 people, is located between the front spar and bulkhead No. 15. The central passenger compartment can accommodate 15 people; the rear compartment, equipped for 55 passengers, is like the rear compartment in Tu-104A.

Card 2/4

84-8-7/36

Tu-110 (Cont.)

The tail of the To-110 has two cloak-rooms and two toilet rooms. The drainage cistern has a capacity of 250 liters and is filled with 20 liters of chemical agents. The cisterm is equipped with two electric pumps of the BUH-1 type and a filter. The wash-basins are supplied from an 80 liter clatern. To increase the luggage compartments (placed under the first and the third passenger cabins), the floor of the cabins was raised by 140 mm and was lowered in the luggage compartments; as a result, the total height of the luggage compartment was increased by 210 mm and the total capacity of the two luggage compartments is now 28 cubic meters. The performance specifications are as follows: the range, with 12 tens of payload, 1s 3,100 to 3,300 kilometers, the supply of fuel is carried for omeadditional hour of flight; at an altitude of 10,000 to 12,000 meters; the cruising speed is 800 km per hour; the maximum speed is 1,000 km per hour; if the distance to be covered is less than 2,700 km, the flight speed can be maintained at 900 km per hour. According to calculations of GosNII of the GVF, the carrying cost of a ton/kilometer in the Tu-110 (at full payload of 12 tons) is essentially the same as in any

Card 3/4

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6"

Tu-110 (Cont.)

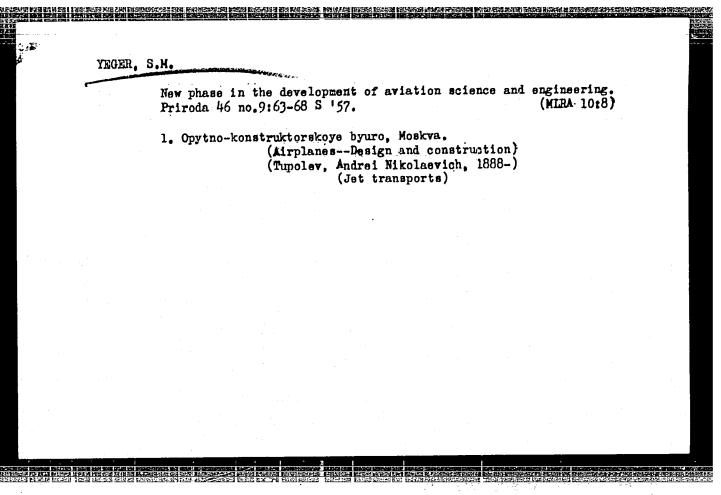
84-8-7/36

turbo-prop aircraft. Moreover, turbojet planes can be used for short hops, i.e., for distances between 1,000 and 2,700 km, with similar commercial results. Two diagrams on page 8 show (vertically and horizontally) a cross-sectional view of the new Tu-110. A photo on page 9 shows an inside view of one of the passenger compartments.

AVAILABLE:

Library of Congress

Card 4/4



APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6"

YEGER, S.

85-10-15/35

AUTHOR:

Yeger, S., Leading Designer

TTTLE:

Airliner "Tu-110" (Magistral'nyy samolet "Tu-110")

PERIODICAL:

Kryl'ya Rodiny, 1957, Nr 10, pp. 14-15 (USSR)

ABSTRACT:

The author of this article describes the new passenger Jet airliner "Tu-110", which soon will be in operation on domestic and international air routes. This airliner was designed by the A.N. Tupolev's designing bureau on the basis of the "Tu-104" airplane. The "Tu-110" has four turbo-jet engines, as compared with the two engine "Tu-104". Its thrust is one and a half times greater than that of the "Tu-104". The increase of the electric armament permits to increase considerably the take-off weight of the airplane on account of the useful loading, which reaches 12 tons. The serial airliners "Tu-110", which are being produced, are intended for the transportation of 100 passengers. The speed of the "Tu-110" is 800 km per hour on flight routes of 3,100-3,300 km and can be made at 900 km per hour speed on flight routes of 1,000-2,700 km. A trip from Moskva to Tashkent will last

card 1/2

ar de l'arte de la company La company de la company d

85-10-15/35

Airliner "Tu-110"

3-4 hours instead of 3-4 days. The air liner has three cabins: the forward cabin has 30 seats, the middle cabin has 15 seats and the rear cabin has 55 passenger seats. Inside the air liner the pressure and the temperature are automatically controlled. The baggage and the cargo space is located in the fuselage, under the floor of the passenger cabins. The main constructive elements of the "Tu-110", the wing, tail and chassis are the same of the "Tu-104". The air liner "Tu-110" is outfitted as in the "Tu-104". The air liner "Tu-110" is outfitted with the most up to date pilotage, navigation and radio equipment. An automatic pilot, instruments securing blind landing in fog or rain, automatic radio compasses, radio stations operating on short and ultra-short waves are installed on this air liner. The high aerodynamic characteristics of this airliner secure good stability and controllability at all regimes of flight. Its maximum speed is 1,000 km per hour. This article is illustrated by a photo, showing the exterior side-view of the airliner, and by two drawings, showing the elevation and the plan of the airliner's interior.

AVAILABLE: Card 2/2

Library of Congress

5/084/62/000/004/001/002 DO45/D112

Yeger, S., Section Chief of a Design Bureau The Tu-124 - a medium-range commercial transport jet

AUTHOR:

TITLE:

Grazhdanskaya aviatsiya, no. 4, 1962, 10-13

The components, design features and performance of the Ty -124 The components, design features and performance of the ly -124. The (Tu-124) medium-range commercial transport jet aircraft are described. The (Tu-124) medium-range commercial transport of the consists of 2 turbofon opening consuming about 15-25% less fuel transport of the consists of 2 turbofon opening. Tu-124) medium-range commercial transport jet aircraft are described. The power plant consists of 2 turbofan engines, consuming about 15-25% less fuel power plant consists of 2 turbofan engines. Double-clotted flame increase the power power power and power and power power power and power power power power and power power power power power and power pow power plant consists of Z turooian engines, consuming about 17-27% tess in the power plant consists of Z turooian engines. Double-slotted flaps increase the than PA-3M(RD-7M) turbojet engines. The take-off run is 700-800 m and the wing lift on take-off and landing. then [H-) M(RD-)M) throojet engines. Double-slotted flaps increase the wing lift on take-off and landing. The take-off run is 700-800 m and the landing run the same due to low landing and the use of mail and landing run the same due to low landing and the use of mail and landing run the same due to low landing and the use of mail and landing run the same due to low landing run th PERIODICAL: wing lift on take-off and landing. The take-off run is (00-000 h and the use of spoilers and landing run the same, due to low landing speed and the use of spoilers and landing run the same, due to low landing of the flanc by AO reduces landing gear wheel brakes. Complete opening of the flaps by 40 reduces the landing speed to 180-200 len/hr landing gear wheel brakes. Complete opening of the flaps by W reduces
the landing speed to 180-200 km/hr. There is a crew of 2 pilots, a navithe landing speed to 160-200 km/hr. There is a crew of 2 pilots, a navi-gator and steward. The basic version is a 44-scater, 3-compartment air-gator and steward. The basic version is a losd capacity of 5 t. The craft (12,8 and 24 sects respectively) with a losd capacity.

Card 1/2

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R00196242001

The Tu-124 - a medium range ...

3/084/62/000/004/001/002 D045/D112

economy-class model seats 52-60 passengers and has a load capacity of 6-7 t. Landing aids and an autopilot are fitted in the crew cabin and flights in bad weather can also be made. The aircraft structure has a high fatigue strength due to the use of Ω , -16 (D-16) aluminum-copper alloy for the lower wing surface and high-strength aluminum-zinc alloy for the upper wing surface. The flight range is 1500 km at a take-off weight of 33.2 t (including 5 t commercial load), and the cruising speed is 800-900 km/hr. Monstop flights of up to 2500 km can be made if the commercial load is reduced and the maximum amount of fuel is available. Airfields with runways, 1500-1600 m long, are required for the Tu-124, which can land and take-off on concrete and earth runways. There are 7 figures.

RODNYANSKIY, L.M.; YEGER, S.M.

Review of "Design of airplane hydraulic devices" by T.M.Bashta. Vest. mashinostr. 43 no.11:90 N '63. (MIRA 17:2)

L 1594-66 ENT(d)/ENT(m)/ENP(w)/FA/ENP(v)/T-2/ENP(k)/ENP(h)/ENA(h)/ETC(m) WN/EM

AM5007583 BOOK EXPLOITATION UR/
629.138.5.001.12 (022)

TEger, Sergey Mikhaylovich

Designing passenger jet aircraft (Proyektirovaniye passazhirskikh reaktivnykh samoletov) Moscow, Izd-vo 'Mashinostroyeniye", 1964. 451 p. illus., biblio., tables. Errata slip inserted. 3500 copies printed.

TOPIC TAGS: passenger aircraft, jet aircraft, aircraft tail, aircraft engine, aircraft performance, aerodynamic noise, flight control system, aircraft wing, aircraft cabin equipment

PURPOSE AND COVERAGE: The book presents the peculiarities of the passenger jet aircraft designing methods while distinguishing them from other designation aircraft designing methods. In particular considered are aircraft of high subsonic speeds and high quality selection methods for alternative arrangements of arrowhead wings Vefficiency problems and factors affecting the economy of passenger aircraft are analysed. The problems of aerodynamic composition and the flight characteristics of passenger jet aircraft in respect to safety and life are examined. Some chapters deal with the noise and safe flight at high altitudes. The book is intended for engineering and technical workers

Card 1/3

```
L 1594-66

AM5007583

of aviation industry. It can also be used by students of aviation institutes.

TABLE OF CONTENTS (abridged):

Foreword — 3

Introduction — 4

Ch. I. Efficiency determination of passenger aircraft — 5

Ch. II. Interior arrangement of passenger aircraft — 38

Ch. III. Peculiarities of wing arrangement in modern jet aircraft — 111

Ch. IV. Lateral and flying stability and maneuver ability of passenger

jet aircraft — 147

Ch. V. Control peculiarities of passenger jet aircraft and arrangement of

Atail groups — 161

Ch. VI. Improvement of takeoff and landing characteristics — 187

Ch. VII. Possible ways for the improvement of basic flight engineering,

stability and control characteristics of passenger jet aircraft — 252

Card 2/3
```

L 1591-6 N15007583	6 ;						
Ch. IX. Ch. X. I	Structure per Passenger jet Problems of i	aircraft no	ise and mes	sures of m littudes,	oise reducti some problem	s of high	
	nphy — 448 AC		Airconditio		ssenger jet No ref sov:		393
OTHER: C	738						
	C						
Card 3/3	\sim Θ		the state of the s				

EWT(d)/EWP(m)/EWT(m)/EWP(f)/EWP(h). ь 08118-67 UR/0084/66/000/009/0008/0011 SOURCE CODE: AP6030282 ACC NRI Yeger, S. M. (Doctor of technical sciences) AUTHOR: ORG: none TITLE: From the TU-104 to the TU-154 SOURCE: Grazhdanskaya aviatsiya, no. 9, 1966, 8-11, and 16-17 TOPIC TAGS: passenger aircraft, turbojet aircraft, civil aircraft data, turbofan engine, aircraft engine/TU 154 aircraft, Kuznetsov turbofan engine ABSTRACT: The Tupolev TU-154 has three rear-mounted Kuznetsov turbofan engines of 9500-kg static thrust each. The monocoque wing contains five fuel tanks, with a total capacity of 33,150 kg, and four reserve bag tanks for an additional 7150 kg of fuel. Normal operational characteristics include a take-off weight of 80,000 kg (consisting of 40,200 kg empty weight, 1500 kg of equipment and crew, 16,000 kg of payload, and 22,300 kg of fuel), a cruising speed of 900 km/hr at a 11,000 to 12,000-m altitude, and a range of 3300 km. In this case, its take-off run is 800 m at sea level and at +15C, but the length of concrete runway should be 1250 m. Normal landing weight is 62,000 kg, and the landing run is estimated at 600 to 800 m. The fuselage contains two passenger compartments with seat arrangements for 158, 146, and 134 passengers; two pressurized luggage sections with a total volume of 38.5 m, and one 5.6-m unpressurized section. The aircraft is manned by a basic crew of three. Among the special features discussed in some detail are an auxiliary Card 1/2

L 08118-67	make representative and the service of the service
ACC NRi AP6030282	. 0
power plant, an integrated piloting system, automatic st tuning radio equipment, and wing control surfaces. Total estimated at 30,000 hr for the TU-154 airframe and 10,00 maintenance is prescribed every 5,000 hr for the airframe each engine. The general configuration of the TU-154 and with the TU-104B, and therefore repair and maintenance f servicing both types. A cargo version of TU-154 is in thave a large side door, a reinforced floor, and carry a 2500 km at 900 km/hr. Orig. art. has: 5 figures.	al operational time is 00 hr for each engine; me and every 2,000 hr for nd its size compare roughly facilities can be used for the planning stage. It will
SUB CODE: 01, 21/ : SUBM DATE: none/	
	•
	<u> </u>
	the state of the s
Card 2/2 nst	

YEGER, Tomas; FAT'YANOV, V.V., red.; VIASOVA, N.A., tekhn.red.

[Using concrete in radiation shielding; collection of articles]
Beton v tekhnike zashchity ot izluchenii; sbornik. Moskva, Izd-vo
glav.upr. po ispol*zovaniiu atomnoi energii pri Sovete Ministrov
SSSR, 1960. 91 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye po ispol'zovaniyu atomnoy energii.
(Concrete) (Shielding (Radiation))

SOV/131-58-11-2/9 15(6)

Glebov, S. V., Timofeyev, N. N., Yeger, V. G. AUTHORS:

Specially Dense and Stable Ladle Bricks of "Kremnevka", of the TITLE:

Borovichi Deposit (Osoboplotnyy stoykiy kovsnevoy kirpich iz

borovichskoy "kremnevki")

Ogneupory, 1958, ANr 11, pp 494-497 (USSR) PERIODICAL:

Huge deposits of kaolinite materials in form of "sukhari" and ABSTRACT: "kremnevki" are found in the region of Borovichi in the USSR.

The use made of them is both wrong and unsatisfactory. The content of 41203 which is higher than in kaolinites is charac-

teristic of "kremnevka", as well as its increased refractoriness

(beyond 1750°) and the complete lack of plasticity.

Composition and properties of "kremnevka": It consists of hard pieces which do not have any plasticity and do not soften in water. Its absorption of water amounts to 5-12%. The percentages of the average chemical composition of "kremnevka" are the fol-

lowing: $810_2 - 49,1$; $A1_20_3 - 47,7$; $T10_2 - 1,0$; $Fe_20_3 - 0,84$; CaO - 0,44; MgO - 0,23; R₂O - 0,71. Its refractoriness reaches

1760° and its specific weight is 2,612. As to refraction of Card 1/4

SOV/131-58-11-2/9 Specially Dense and Stable Ladle Bricks of "Kremnevka", of the Borovichi Deposit

light this material is quite close to kaolinite. The dependence of sintering and shrinking of "kremneyka" on temperature is shown in the figure.

Composition and properties of "kremnevka" samples. The test results of samples of 14 different materials are listed in the table. In order to check the results obtained, bricks of regular size were made of material Nr 14 by the same process used for the samples (burned at 1550°). Having low porosity (below 14%) and exceptionally low permeability to gas, these bricks are characterized by a high Al₂0, content and great mechanical strength.

Production and checking of an industrial series of ladle bricks. The experimental series was produced in the Department Nr 4 of the Semilukskiy ogneupornyy zavod (Semilukskiy Plant for Re-ractory Products). The various processes in the production are described in detail as well as their chemical composition. The data obtained were the following: shrinking of bricks - 2,1%; refractoriness - 1750°: specific weight - 2,36-2,41 g/cb.cm; average porosity - 12,2%; permeability to gas - 0,05; slag

Card 2/4

COV/131-58-11-2/9

Specially Dense and Stable Ladle Bricks of "Kremnevka", or the Borovichi Deposit

erosion: by weight - 156 g, volumetrically - 81 cb.cm. The sample bricks were tested in the lining of three 70-ton steel-teeming ladles. In comparison to conventional ladle bricks, these bricks showed an increase of stability by 75%. Conclusions: The experiments proved that specially dense and stable steel-teeming ladle bricks can be made of "sukhari" and "kremnevki" of the Borovichi deposit; that the production of these bricks can be introduced in the Borovichi Kombinat; that it is necessary to equip the departments of the plant with tube mills, a tunnel kiln for high temperatures and hydraulic presses. There are 1 figure, 1 table, and 4 references, 5 of which are Soviet.

ASSOCIATION: Leningradskiy institut ogneuporov (Leningrad Institute of Refractory Materials)

Caru 3/4

1	•				u %	11 th 6 12 th 12 t	: "_			for	retek. 886:138-	100	yaung sa sa sa sa sa sa sa sa sa sa sa sa sa					•			
!		-1-9/12 dykb	•	t ayy	1958. wi 1958. wi Institu present rdeyev.	4 4	at results of the properties to the desired of the dynamic method of the dynamic method of the desires	of the changes sagnesise-onfosite	11.	30.4.	motorn men a 22 mg	subtraction as the state of the	of the young in the arty and rectinen the	Institute of							
		307/151-59-1-9/12		780807	wer 19-frage	outlined in his openies we design a warlous species branches de sinearing reports are samples of superspecies	dynamic dynamic	dulue of state of the about the contraction of the	ulte of clay.	THE STATE OF THE PARTY OF THE P	194 201		March Lines			-	·				
		8	Specialists (Edginishmung)	(255D)	* 2 5 4 5 5 7	ners ofer pectal bra ollewing r res reco	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100000	elaboration results of steat is 47500 of olar		THE THE PARTY OF T	1000	. 4 m M M a.				•			•	
			. (Koi		A Language of the control of the con	dutiined in t ericus mp ther, the for t manufactur silicacus r	teriores	t the	alabora cortest L			A TO SELECT		40144.44					٠		
	İ	ikin. P.	Speciali	1. pp 47-47	or young speciality of the control o	of war. Purther. Pout wer	perred conson	vinbon o	orted an	40.00	reparted on series on a	40011 01 U. V.			J. 1011						•
	-	į	Tour	59. Br	. 6444.64	Inettru	kine Te Roluti evekiy	4		, a 11 1	neder rep	eral'ann der		13 037kd	, 188) -188)			•			
		Karkliu, å. E.	Conference of applications)	0gneupery, 1959, Br	444	her of young to the same outlined in his great of the last ture of which a pectal has of whither, be follow in a successful. Further, be followed to the same of t	hearsvers). W. Meghalkian reported on test refri. W. Meghalkian solutions on liquid dises. W. Meshawelly (UNIO) reported on it.	determination of the medu up to 1900-1400. G. Melimikova stoke ab	reducts. T. Sergian			H C	A to the to be to	#8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Weestrands Befracteries						
		Kerkli	Conf	700	This con- inclination the part and the	2 2 2 2		3 30		-00		4244	145464	9 H T		· ·		. •			
		ñ		PERIODICAL	ŧ) S			·		× 1		125CC1171CH	i i		Card 3/1			
		15(0) ATT BOBS	ann	PERIO	LISTELCT.			2					4		•						
		•										. •									

KLYUCHAROV, Ya.V.; YEGER, V.G.

Interaction of magnesite-chromite with calcium oxide. Ogneupory 28 no.3: 126-133 '63. (MIRA 16:2)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
(Refractory materials) (Calcium oxide)

YEGER, V.G., inzh.

Interaction of magnesium oxide and magnesium chronite with calcium chromite. Trudy Inst. ogneup. no.34:45-63 163. (MIRA 17:10)

CIA-RDP86-00513R001962420010-6" APPROVED FOR RELEASE: 09/19/2001

YEGER, Yekaterian Ivanovna; LEBEDEV, Aleksandr Vasil'yevich;
LEVINA, Dina Lipovna; NOVIKOVA, S.N., red.; KAPRALOVA,
A.A., tekhn. red.

[Principles of statistics; textbook for training accountants of industrial enterprises] Osnovy statistiki; uchebnoe posodlia podgotovki bukhgalterov promyshlennykh predpriiatii. Izd.2., perer. i dop. Moskva, Gosstatizdat, 1963. 223 p. (MIRA 17:1)

YEGEREV, K.Ye. (Moskva)

Creep of carbinol glues used in soil stress analysis and in testing building materials. Izv.AN SSSR.Otd.tekh.nauk no.4: (MLRA 9:8) (Frozen ground) (Glue) (Greep of materials)

THORMEV, K.Ye., kand. tekhn. nauk.

Practical designs for reinforced concrete piles to be used in

Practical designs for reinforced concrete piles to be used in

permafrost areas. Stroi. prom. 36 no.3:31-33 Wr '57. (MIRA 11:3)

(Frozen ground) (Piling (Givil engineering))

AUTHOR TITLE

YEGEREV, K. Ye.

٦.

20-1-8/64

An Electrical Method for the Determination of the Tangential Reactions at the Lateral Surfaces of a Pile Frosen into the

(Elektricheskiy metod opredelemiya kasatel mykh reaktsiy po bokovoy poverkhnosti vmoroshennoy v grunt nagrushennoy svai .-

Russian)

PERIODICAL

Doklady Akademii Nauk SSSR 1957, Vol 114, Nr 1, pp 33-36 (USSR)

ABSTRACT

The Institute for the Investigations of Frost, Academy of Sciences of the USSR, adopted an electrical method for the measurement on nonelectrical magnitudes for the purpose of studying the changes in the state of stress of the ground around a pile frozen into the ground. In the paper under review, the author investigates the behavior of a hollow support in the form of a pile of the length H, the cross section F, and with the lateral surface x. This support is penetrated without friction through a layer of the thickness of the annual freezing depth and frozen into the ground in the depth ho. With the aid of structural measures a longitudinal bending of the support was eliminated, and for this reason the pile will suffer in its

CARD 1/3

20-1-8/64

entire elongation a simple compression as result of the load P. For the vertical forces acting upon the pile, we have the following equation of equilibrium: Fo(y) -P = 0. In the cross sesctions, where $y \geqslant 0$, there are added to the sum of the forces into the direction just mentioned also the tangential reactions distributed

over the lateral surface of the pile frozen into the ground: $\mathbb{P}^{\sigma}(\mathbf{y}) = \mathbb{P}^{+} \times \int_{0}^{\pi} \mathfrak{I}^{-} (\mathbf{y})^{\mathrm{d}\mathbf{y}} = 0.$

The normal stress $\sigma(y)$ and the tangential stress $\widetilde{f}(y)$ are unknown in this context. The experimental investigations were conducted with electrotensometers of the form of wiretransmitters of chmic resistances and with an electronic meter for deformations. The laboratory experiments provisionally supportes the theoretical conclusions. The investigations outdoors were conducted on the experimental field in Yakutsk from September to November 1954. A brief description of these investigations is given in the paper under review. They led to the following conclusions: The electrical method for the measurement of the elastic deformation in metallic piles permits a more precise elaboration on the state of stress of the for a long time frozen grounds in dependence on the temperature, the humidity, and the granulometric composition. In those areas where it is possible to build on basis

CARD 2/3

20-1-8/64

An Electrical Method for the Determination of the Tangential Reactions at the Lateral Surfaces of a Pile Prozen into the Ground.

of the principle of the conservation of the for a long time frozen ground as foundation soil for installations, the use of pile supports is economical.

(4 reproductions, 1 chart)

ASSOCIATION: Institute for the Investigation of Frost, Academy of Sciences

of the USSR

PRESENTED BY: D.I. SHCHERBAKOV, Member of the Academy, 24.12. 1956

SUBMITTED: 14.8. 1956.

AVAILABLE: Library of Congress.

CARD 3/3

YEGHREV Konctantin Yefimovich, SAUTYEOV, N.I., prof., doktor tekhnicheskikh neuk, ntv.rcd.; MURCHCV, D.A., red.; ZELENKOVA, Ye.V., tekhn.red.

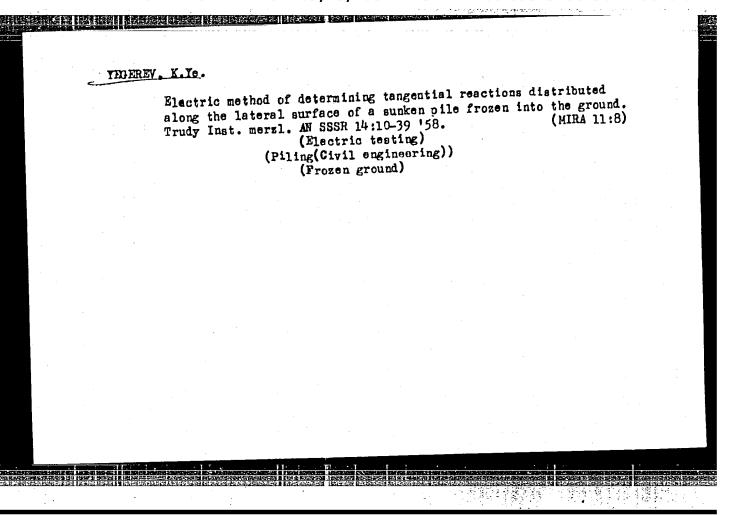
[Designing reinforced concrete foundation and building frames subject to irregular setting] Raschet zhelezobetonnykh ramnykh fundamentov i karkasov pri neravnomernoi osadka opor. Hoskva fundamentov i karkasov pri neravnomernoi osadka opor. (MIRA 11:8) Izd-vo Akad. nauk SSSR, 1958, 58 p. (Heinforced concrete construction) (Foundations)

TECHTY, K.Ye., kand.tekhn. nauk

Device for measuring pressure in heaving grounds. Transp. stroi. 8

(MIRA 11:10)

(Fresen ground) (Soil mechanics)



Galculations for frame foundations and frames in case of instantaneous uneven settling of supports. Trudy Inst. merzl.

AN SSSR 14:104-107 '56. (MIRA 11:8)

(Structural frames)

(Foundations)

(Frozen ground)

AUTHOR:

Yegerev, K.Ye.

20-119-2-7/60

TITLE:

Relaxation of Tangential Stresses at the Lateral Surface of a Loaded Pole Frozen Into the Ground (Relaksatsiya kasatel nykh napryazheniy po bokovoy poverkhnosti vmorozhennoy v grunt nagruzhennoy svai)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol , 119, Nr 2, pr 223-225 (USSR)

ABSTRACT:

In 1954 the author determined the tangential reactions at the lateral surface of a loaded pole frozen into the ground (reference 1). Based on the results of the measurements of normal stresses O(y) in the elastic material of the pole the tangential stresses O(y) at the determined from the equation $O(y) = P + \int_{0}^{\infty} J(y) dy = 0$. F denotes the area of the pole cross-section, P the

F denotes the area of the pole cross-section, P the external load and W the circumference of the pole. In these measurements the following was found: With a constant value of a short external load the greatest

Card 1/3

values of J(y) were observed in the upper part of the pole,

Relaxation of Tangential Stresses at the Lateral Surface of a Loaded Pole Frozen Into the Ground 20-119-2-7/60

and these values decreased strongly in the lower part of the pole. In connection with the creeping of frozen ground a relaxation of the stresses occurred in the course of time and the stresses increased in the lower part. In this redistribution of stresses the length of the stressed upper part grew while the length $\theta(y)^{the}$ and $t(y) \neq 0$. not stressed lower part became smaller, This phenomenon is called "Creeping Approach of the Zero Point" by the author. The measurements on the open test ground of the Yakut Scientific Research Station for Frost of the AS USSR (Yakutskaya nauchno-issledovatel skaya merzlotnaya stantsiya AN SSSR) lasted for 460 hours. The measurements are described. The measurements carried out lead to the following final conclusions: 1) Warm given conditions of stress and length of pole in the redistribution of the , tangential stresses the stresses in the upper part of the pole decrease due to their relaxation and in the lower part they increase a little without relaxation. 2) The permanent strength in the freezing together of sandy

Card 2/3

Relaxation of Tangential Stresses at the Lateral

20-119-2-7/60

Surface of a Loaded Pole Frozen Into the Ground

ground with duraluminium reached values of $\mathcal{T}_{perm.}$ 2.40 kg/cm² at ground temperatures of from -2.1 to -3.1° C. 3) The permanent strength of the freezing together of the same soil with an armed concrete pole at the same temperatures and the same humidity must have greater values as the surface of relaterced concrete is not/ rougher than the surface of the measuring tube of aluminum. There are 3 figures and 1 reference, 1 of which is Soviet.

PRESENTED:

September 2, 1957, by D. I. Shcherbakov, Member,

Academy of Sciences USSR

SUBMITTED:

August 29, 1957

AVAILABLE:

Library of Congress

Card 3/3

SALTYKOV, Nikolay Ivanovich. Prinimali uchastiye: YEGEREV, K.Ye.; ZHUKOV, V.F.. PORKHAYEV, G.V., kand.tekhn.nauk, starshiy nauchnyy sotrudnik, otv.red.; HIKOLAYEVA, I.H., red.izd-va; POLYAKOVA, T.V., tekhn.red.

HA E BETT HE I REMOVED THE BETT COMMENTED AND ADDRESS OF THE PROPERTY OF THE P

[Foundation engineering in permafrost areas] Osnovaniia i fundamenty v raionakh rasprostraneniia mnogoletnemerzlykh gruntov. Moskva, Izd-vo Akad.nauk SSSR, 1959. 205 p. (MIRA 13:1)

1. Institut merzlotovedeniya imeni V.A.Obrucheva (for Porkhayev).

(Foundations) (Frozen ground)

YEGEREY, K.Ye.

Designing piles for constructing foundations on permafrost.

Osn., fund. i mekh.grun. no.3:7-9 '59. (MIRA 12:8)

(Piling (Civil engineering)) (Frozen ground)

YEGEREV, K.Ye., kand.tekhn.nauk

Building on frozen ground in seismic regions. Prom. stroi. 37 no.2:53-55 F 159. (MIRA 12:3)

(Frozen ground) (Rarthquakes and building)

YEGEREV. Konstantin Yefimovich; SARKISYAN, R.M., kand.tekhn.nauk, otv.red.; AKIMOV, A.T., kand.tekhn.nauk, otv.red.; GRIGOR'YEV, Ye.M., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Electrotensiometry in studying relations between foundations and frozen ground] Elektrotenzometriis v issledovaniiakh vzaimodeistviia fundamentov s merzlymi gruntami. Moskva, 12d-vo Akad.nauk SSSR, 1960. 173 p.

(Foundations) (Frozen ground) (Tensiometers) (MIRA 14:2)

YEGEREV, K.Ye.

Dynamometer used in investigating the strained state of frozen ground at the footing of the foundation. Mat. k csn. uch. c merz. zon. zem. kory no.6:128-133 '60. (MIRA 13:10) (Dynamometer) (Frozen ground) (Foundations)

VEGEREV, K.Ye.

Use of electrotensiometry in cryopedological investigations for engineering purposes. Mat. k osn. uch. o merz. zon. zem. kory no.5: 142-148 '60.

(Frozen ground) (Strain gauges)

YEGEREV, K. Ye. Doc Tech Sci -- "Study of the interaction between foundations of buildings and structures and congested, freezing, and thawing bear grounds," Mos, 1961, Acad Sci USSR. Inst of Permafrost Studies im V. A. Obruchev).

(KL, 4-61, 193)

-149-

Strength of the freezing of ground to the foundation. Issl.po fiz.

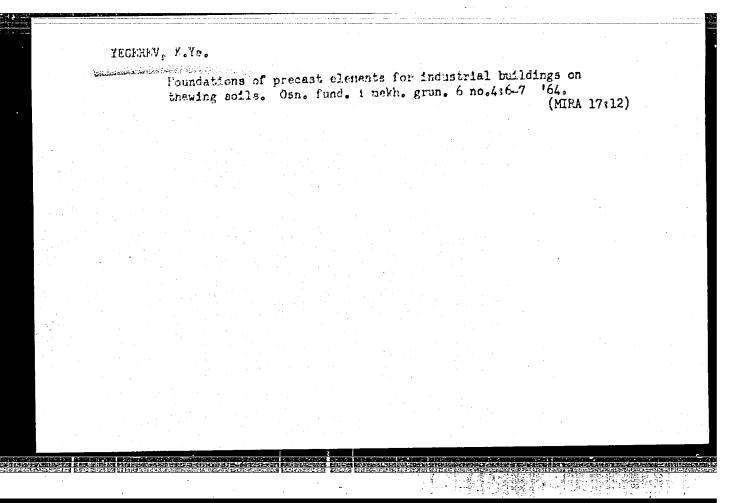
1 mekh. merzl. grun. no.4:156-165 '61. (MIRA 14:12)

(Frozen ground) (Foundations)

YEGEREV, K. Ye.

Prospects for the development of research in determining the earthquake-resistance of structures. Trudy FTI Turk, fil. AN SSSR no.2137-45 50. (MIRA 16:1)

(Earthquakes and building)



JD/JG EWY(m)/EWP(j)/EWP(t)/ETI LIP(c) L 04730-67 ACC NR: AP6027012 SOURCE CODE: UR/0080/66/039/005/1186/1187 AUTHOR: Yegerev, O. I .; Pogorelyy, A. D. ORG: none TITLE: Equilibrium factor of fractionating K2ZrF6 and K2HfF6 on crystallizing from an aqueous solution SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 5, 1966, 1186-1187 TOPIC TAGS: crystallization, phase equilibrium, equilibrium constant, chemical precipitation, hafnium compound, zirconium compound, fluoride ABSTRACT: The coefficient of the separation of Zr and Hf on crystallizing K₂/Zr(Hf)/F₆ from an aqueous solution was determined and found to be temperature dependent. Hf tends to concentrate in the liquid phase. The effectiveness of separating Zr and Hf² by crystallizing their potassium hexafluorides is reduced at higher temperatures. The temperature dependence of k is approximated by $k = 0.883 \cdot 10^{-3}T + 0.17514$, where T is in K. Values for the coefficient of separation of K₂ZrF₄ and K₂HfF₆ are: at 20°C, 0.4340; 40°, 0.4515; 60°, 0.4690; 80°, 0.4870. Orig. art. has: 2 tables and 4 equations. SUB CODE: 07/ SUBM DATE: 01Sep65/ ORIG REF: UDC: 542.65+546.831:832:32:161

L 07414-67 EWT(1)/EWT(m)/ETI/EWP(t) IJP(c) JD ACC NR. AP6032849 SOURCE CODE: UR/0020/66/170/003/0544/0547

AUTHOR: Yegerev, V. K.

ORG: All-Union Extramural Polytechnic Institute (Vsesoyuznyy zaochnyy politekhnicheskiy institut)

TITLE: Solution of equations for diffusion, within multilayer active media with linear interrelationships

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 544-547

TOPIC TAGS: heat sink, heat source, Green function, heat diffusion

ABSTRACT: This paper presents a method for solution of the equation:

 $u_i' = D \Delta u + ku$

The above equation describes diffusion or thermal conduction processes in media containing heat source (k > 0) or heat sink (k < 0). Solution in general form is possible by means of Green's functions or Greenberg's transformations. The author develops a mathematical solution of this equation for a particular case of a medium containing several (n) flat layers with solid (impenetrable) outer boundaries of the system

 $(u_1)'_x|_{x=0}=0; \quad (u_n)'_x|_{x=l_n}=0,$

Card 1/2

UDC: 518.61

L 07414-67

ACC NR: AP6032849

For each layer, the thickness δ_j , the coefficient of diffusion D_j , and the constant describing the heat source (or heat sink) k_j are assumed to be known (see fig. 1).

Fig. 1

Substitution $u_j = U_j e^{-kjt}$ is used, and then the Laplace transforms with boundary conditions corresponding to each layer. Thus the author obtains a system of 2n equations. This system is rewritten with the use of operators Δ , Δ_{A_j} , Δ_{B_j} (where A_j and B_j are

coefficients in the equations). By this method, the solution of the equation system is reduced to the graphical solution of equations $\Delta = 0$, $\Delta_A = 0$, and $\Delta_B = 0$ for

several roots. The precision of the solution will depend colely on the precision of the roots found in the graphical solution of equation $\Delta = 0$. The proposed method is applicable to the analysis of complex biological processes. Presented by Academician I. Ye. Tamm on 31 May 1966. Orig. art. has: 15 formulas, 1 figure.

SUB CODE: 12,20/

SUBM DATE: 30May66/

ORIG REF: 009

Card 2/2 Sal

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6"

NIKOLAYEV, A.N.; GLADCHENKO, I.P.; NESVETOV, N.V.; YEGEREV, V.N.

Experience in the use of plastics in construction. Plast.massy no.10:55-59 '63. (MIRA 16:10)

YEGEREV, V.S., arkhitektor

Falace of Pioneers and Students. Gor.khoz.Mosk. 36 no.8:3-5
Ag '62.

(MOSCOW-Public buildings)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420010-6

S/117/60/000/012/016/022 A004/A001

AUTHORS:

Os machko, A., Luganskaya, V., Yegerev, Yu.

TITLE:

Friction Disks Made of Plastics

PERIODICAL: Mashinostroitel', 1960, No. 12, pp. 36-37

TEXT: The authors report on tests which were carried out at their plant to determine the efficiency of plastics friction disks for electromagnetic couplings of metal-cutting machine tools. These disks were introduced at the plant to replace steel disks with metal-ceramic lining whose cost price was too high. The Central Plant Laboratory developed a material corresponding to the main requirements of friction couplings. This material is composed of fibrous asbestos - 226, carborundum - 14%, silver graphite - 15%, powdered tin - 5% and polyester resin solution - 44%. All fillers being used in the composition should be free from fatty acids. The carborundum powder is mixed with the powdered metallic tin and graphite, then the fibrous asbestos is added and the mixture is pulverized in a mortar until it forms a homogeneous mass. Then the polyester resin is added to the mixture. Prior to applying the mixture to the disks, holes are drilled into the latter in order to ensure a strong adhesion between the disk and plastic

Card 1/2

S/117/60/000/012/016/022 A004/A001

Friction Disks Made of Plastics

lining. The plastics mixture is applied to both sides of the disk, covering the disk with a layer of 1.5 mm thickness. A pressure of 3-4 kg is exerted on the disk, placed in a special fixture. Then the disk with the fixture is placed in a drier for the polymerization of the binder. The disks are held in the drier for 3-4 hours at 110°C, then cooled down to room temperature with subsequent mechanical working. The other disk of the friction couple was made of grade 20 steel hardened up to HRC 55-62. The friction disks were tested on an electromagnetic coupling placed in the kinematic circuit of the longitudinal table feed of the 6 12 (6L12P) vertical milling machine. The coupling was set for the transmission of a torque of $M_{\rm t}=8$ mkg in an oil medium. The tests were carried out from April, 1959, to August, 1960, after which the coupling was removed from the milling machine and checked on a special stand. The torque of 8 mkg remained constant, while practically no wear could be observed. An inspection of the disk exterior proved that the plastic showed a strong adhesion to the metallic base of the disk. There were no cracks, no breaking or peeling off of the plastic material.

Card 2/2

YEGEREVA, I.V.

Characteristics of the nutrition of Volga fishes feeding on benthos under the conditions of Kuybyshev Reservoir. Vop. ekol. 5:60-61 (MIRA 16:6)

1. Tatarakoye otdeleniye Gosudarstvennogo nauchno-issledovatel'akogo instituta ozernogo i rechnogo rybnogo khozyaystva, Kazan'.

(Kuybyshev Reservoir--Fishes--Food)

YEGEREVA, Lidiya Iyanovna; RYBAKOVA, V.D., red.; PONOMAREVA, A.A., tokhn. red.

[Production and distribution balance of an agricultural production unit; method for preparation] Balans proizvodstva i raspredeleniia produkteii sel'skogo khoziaistva; metodika sostavloniia. Moskva, Ekonomizdat, 1963. 146 p. (MIRA 16:12)

(Agriculture-Economic aspects)

VAZINGER, Alevtina Vasil'yevna; YEGEREVA, N., red.; SHAVEL'SKAYA, T., otv.

za vypusk; YURGANOVA, M., tekhn. red.

[Natural conditions and feed resources of Chita Province] Prirodnye usloviia i estestvennye kormovye resursy Chitinskoi oblasti. Chita, Chitinskoe knizhnoe izd-vo, 1959. 126 p.

(MIRA 14:10)

(Chita Province—Physical geography)